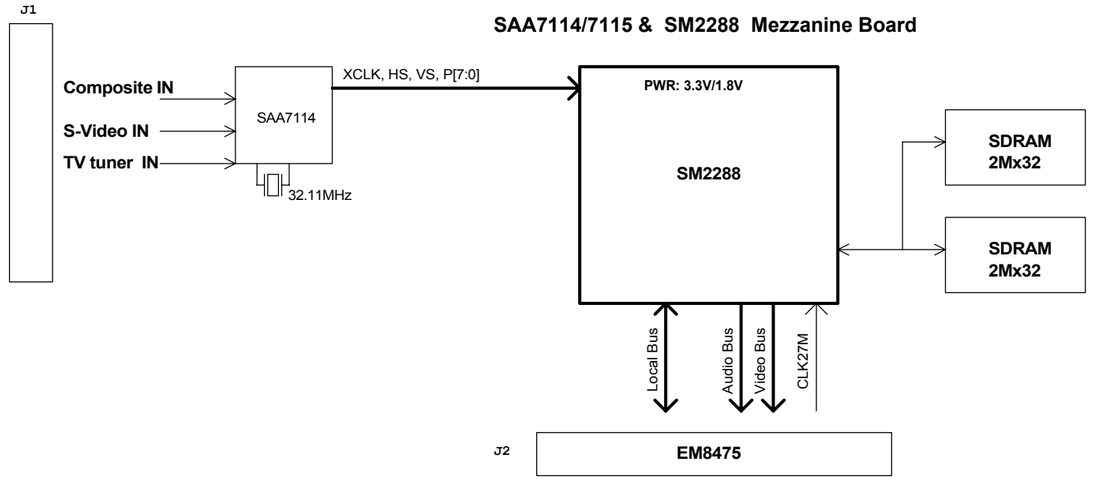

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Video IN

VCC3V

BEAD L1 — 7114VAA1

BEAD L2 — 7114VAA2

C1 10uF, C2–C7 0.1uF — C8 10uF, C9–C11 0.1uF

CVBS_IN — L3 1.8uH — R1 18 — C12 0.047uF — AI11- CVBS (Mode 0)

CHROMA_IN — L4 1.8uH — R2 18 — C13 0.047uF — AI22- C (Mode 7)

LUMA_IN — L5 1.8uH — R3 18 — C14 0.047uF — AI12- Y (Mode 7)

6 TUNER_VIDEO_OUT — L6 1.8uH — C15 0.047uF — AI24- CVBS (Mode 5)

C16–C19 270pF; C20–C23 330pF; R7–R10 56

C24 0.047uF — AI1D

C25 0.047uF — AI2D

VGND

VGND3, VGND2, VGND1

VDDE1 25, VDDE2 51, VDDE3 75, VDDE4 1

VDDI1 33, VDDI2 58, VDDI3 68, VDDI4 83, VDDI5 93, VDDI6 8

VXDD 11

VDDA1 17, VDDA2 23, VDDA3

VSSA0 9, VSSA1 15, VSSA2 24, VSSA 21

AI21 16, AI23 12

SAA7114H

U2

1 SAA_SCL, SAA_SDA — SCL 31, SDA 32

XTRI (OE) 80

nRESETB — RESET 27

XTALIN 7

XTALOUT 6

10pF C26, 1nF C27, L7 10uH, 32.11MHz X1, 10pF C28

3rd Overtone
15-25PPM

TRSTN 97

VSSE 26, VSSE 50, VSSE 76, VSSE 100

VSSD 34, VSSD 63, VSSD 88, VXSS 5

RTCO 36

R15 4K7 — Set I2C address

XPD0 90, XPD1 89, XPD2 87, XPD3 86, XPD4 85, XPD5 84, XPD6 82, XPD7 81

XCLK 94, XDQ 95

XRH 92, XRV 91, XRDY 96

RTS0 34, RTS1 35

LLC 28, LLC2 29

IPD0 62, IPD1 61, IPD2 60, IPD3 59, IPD4 57, IPD5 56, IPD6 55, IPD7 54

ICLK 45, IDQ 46, IGPV 52, IGPH 53

IGP0 48, IGP1 49, ITRI 47

AMCLK 37, ASCLK 39, ALRCLK 40, AXMCLK 41

7114VAA2

R14 4K7 — Set 32.11M xtal

SAA_AMCLK

33 RP1: XPD0–XPD7 — A_VID0–A_VID7 — A_VID[7..0]

33 RP2: XRH, XRV, XRDY — A_HS, A_VS, A_FS

U1A

74LCX125 — A_PIXQ

XPD[7:0]

U1B

74LCX125

XCLK

R4 22, R5 22, R6 22, R11 22 — CLK27MOD, CLK27DEM

HSYNCDEM, VSYNCDEM — R12 00, R13 00

U1C

74LCX125

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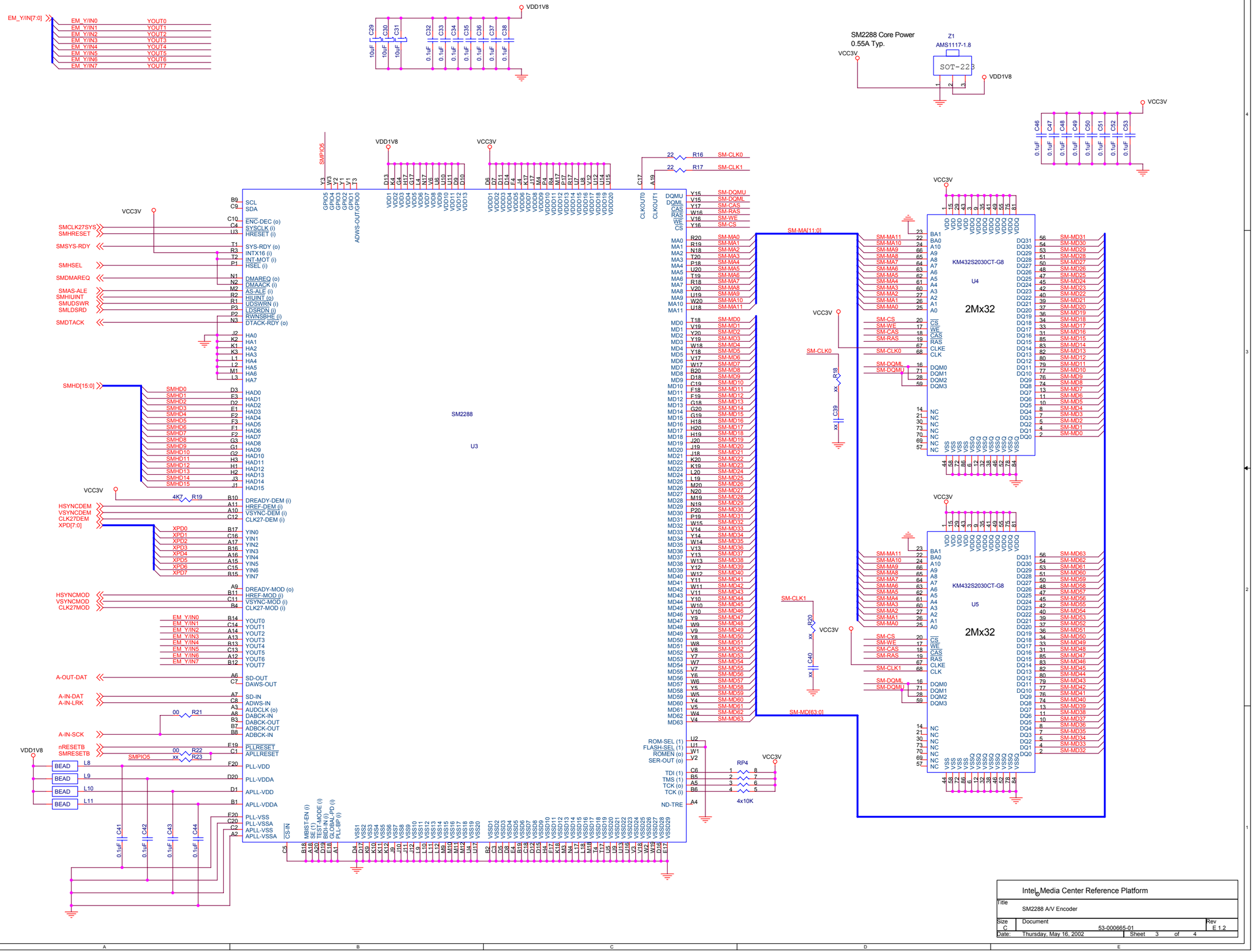
SM2288
U3
SM2288 Core Power
0.55A Typ.
Z1
AMS1117-1.8
SOT-223
VCC3V
VDD1V8
KM432S2030CT-G8
U4
U5
2Mx32
SM-MA[11:0]
SM-MD[63:0]
SM-CLK0
SM-CLK1
SM-CS
SM-WE
SM-CAS
SM-RAS
SM-DQML
SM-DQMU
SMPIO5
ADWS-OUT/GPO0
EM_Y/IN[7:0]
SMHD[15:0]
XPD[7:0]
YOUT0
YOUT1
YOUT2
YOUT3
YOUT4
YOUT5
YOUT6
YOUT7
4x10K
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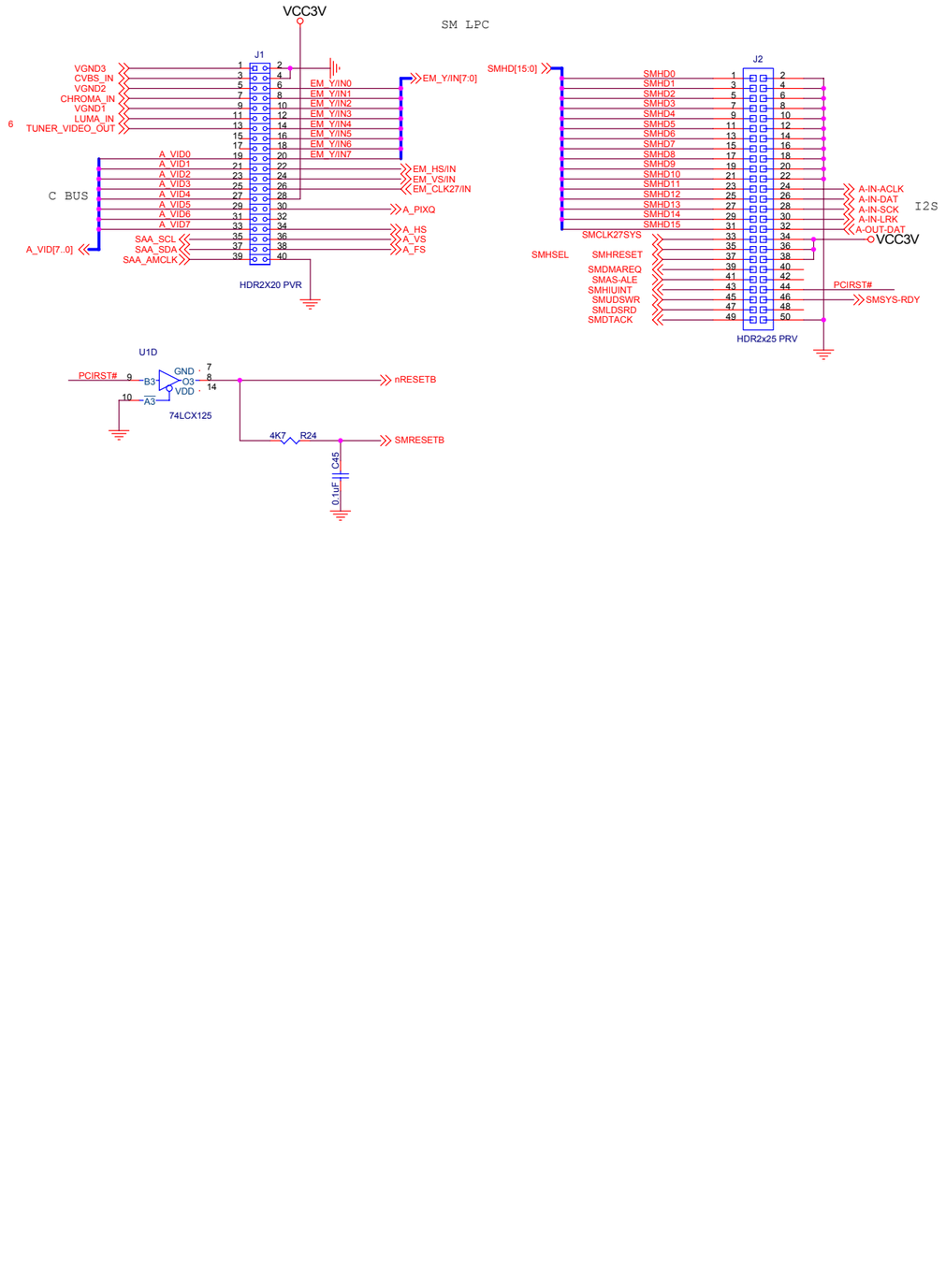

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